

WE CLAIM:

1. A method of providing field service software updates to a mobile vehicle having a telematics device comprising:
  - 5 initiating a vehicle field service software update;
  - sending field service software update data to a vehicle telematics device from a telematics service center;
  - receiving the field service software update data at the vehicle telematics device; and
  - 10 providing the field service software update data to at least one vehicle system from the vehicle telematics device wherein the at least one vehicle system is updated based on the field service software update data.
2. The method of claim 1 wherein initiating a vehicle field service software update for a vehicle comprises:
  - 15 identifying a vehicle for updating;
  - associating field service software update data with at least one vehicle system of the identified vehicle; and
  - providing the field service software update data to a telematics service center for delivery to the identified vehicle responsive to a vehicle
  - 20 software update request for the identified vehicle.
3. The method of claim 2 wherein the vehicle telematics device provides a vehicle software update request responsive to detecting a field service software update trigger event.
4. The method of claim 2 wherein the telematics service center
- 25 provides a vehicle software update request responsive to detecting a field service software update trigger event.

5. The method of claim 1 further comprising:  
storing the field service software update data at the vehicle telematics device.

5 6. The method of claim 1 wherein providing the field service software update data to at least one vehicle system from the vehicle telematics device comprises:

detecting a field service software update trigger event at the telematics device;

10 accessing an update program module stored at the vehicle telematics device responsive to the detecting; and

invoking the update program module wherein the update program module applies the received field service update data to update the at least one vehicle system.

15 7. The method of claim 1 wherein providing the field service software update data to at least one vehicle system from the vehicle telematics device comprises:

detecting a field service software update trigger event at the telematics device;

20 accessing the received field service update data;

applying the received field service update data to the at least one vehicle system to update the at least one vehicle system.

8. The method of claim 7 wherein the at least one vehicle system includes executable code for performing the updating.

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9. The method of claim 7 wherein executable code for performing the updating is included with the received field service update data.

10. The method of claim 1 wherein the field service update data  
5 includes data selected from the group consisting of:  
vehicle system parameters, executable routines, update event  
triggers, and software module lists.

11. A computer readable medium storing a computer program  
comprising:  
10 computer readable code for initiating a vehicle field service  
software update;  
computer readable code for sending field service software update  
data to a vehicle telematics device from a telematics service center;  
computer readable code for storing received field service software  
15 update data at the vehicle telematics device; and  
computer readable code for providing the field service software  
update data to at least one vehicle system from the vehicle telematics device  
wherein the at least one vehicle system is updated based on the field service  
software update data.

20 12. The computer readable medium of claim 11 wherein code for  
initiating a vehicle field service software update comprises:  
computer readable code for identifying a vehicle for updating;  
computer readable code for associating field service software  
update data with at least one vehicle system of the identified vehicle; and  
25 computer readable code for providing the field service software  
update data to a telematics service center for delivery to the identified vehicle  
responsive to a vehicle software update request for the identified vehicle.

13. The computer readable medium of claim 11 wherein computer readable code for providing the field service software update data to at least one vehicle system from the vehicle telematics device comprises:

- 5                    computer readable code for detecting a field service software update trigger event at the telematics device;
- computer readable code for accessing an update program module stored at the vehicle telematics device responsive to the detecting; and
- computer readable code for invoking the update program module
- 10 wherein the update program module applies the received field service update data to update the at least one vehicle system.

14. The computer readable medium of claim 11 wherein code for providing the field service software update data to at least one vehicle system from the vehicle telematics device comprises:

- 15                    computer readable code for detecting a field service software update trigger event at the telematics device;
- computer readable code for accessing the received field service update data;
- computer readable code for applying the received field service
- 20 update data to the at least one vehicle system to update the at least one vehicle system.

15. The computer readable medium of claim 14 wherein the at least one vehicle system includes a computer readable medium having computer readable code for performing the updating when executed.

- 25                    16. The computer readable medium of claim 14 wherein computer readable code for performing the updating is included with the received field service update data.

17. A system for providing field service software updates to a mobile vehicle comprising comprising:

means for initiating a vehicle field service software update;

5 means for sending field service software update data to a vehicle telematics device from a telematics service center;

means for receiving the field service software update data at the vehicle telematics device; and

10 means for providing the field service software update data to at least one vehicle system from the vehicle telematics device wherein the at least one vehicle system is updated based on the field service software update data.